

M D SAJIB PRAMANIC

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SKILLS

Robot Operating System (ROS) | ROS 1 | ROS 2
Navigation | SLAM | Navigation stack | Mapping
Simulation | Gazebo | RViz | Visual Components
Linux | Ubuntu | Administrations system | SSH
Docker | Container | Dockerfile | Images
IoT | Sensors | Micro-controllers | Raspberry PI 5
Languages | C | C++ | Python
Industry 4.0 | Smart Factory | Water process machine

EXPERIENCE

Software Developer Trainee

University of Eastern Finland | Humea Lab |
Kuopio, Finland

Oct. 2023-Present

Skills: ROS 1, ROS 2, SLAM, Simulation, Linux, Computer vision

- Developed a ROS-based navigation system for the Ceterio C-100 AMR robot
- Leveraged ROS for sensor data acquisition, message passing, and actuator control for the robot.
- Developed a SLAM algorithm within the ROS framework for the Ceterio C-100 AMR robot, enabling autonomous map building and localization. Performed comprehensive testing.

Challenging and Solving the problem:

- ROS Network configuration and remote access were a big issue in Docker systems.
- The Ceterio C-100 AMR customized robot according to the agreement, had some issues with the port signal issue.

Components:

- Ceterio C-100 Mobile robot, Sunfounder GALAXY RVR, Sick_safetyscanners, Ouser OS0 LiDAR, Robosense-Bpearl LiDAR, Realsense D435i, D455 and 5G Network.

IoT Trainee

Holobiont Oy | Kuopio, Finland

Oct. 2023- Aug 2023

Skills: Sensors calibration, Cloud, Mobile Application Development

Experienced in Mobile Application Development with a focus on creating, testing, and deploying applications for IoT data collection. Skilled in Cloud Structure Implementation, contributing to the design and implementation of secure and scalable solutions for data storage and analytics from IoT devices. Proven ability in Team Collaboration, actively participating in coding, debugging, and successful project execution within cross-functional teams.

Components:

- ESP32, Holobiont own device, Temp., BME280, Pressure sensors

Trainee/Internship

Savonia University of Applied Science | Kuopio, Finland

Jan. 2023- Jun. 2023

Skills: Smart Factory, Production, Assemble, AR, Water process, Digital Twin

Smart Factory cloud data analysis and develop the Augmented Reality(AR) :

Implemented cloud-based data analysis (MindSphere) and an AR system for Savonia's smart factory, enabling real-time equipment health monitoring, performance optimization, and data-driven decision making.

Mindsphere Waterprocess Cloud Data-analysis and Digital Twin:

Developed data analysis solutions (MindSphere) for water & smart factories, built digital twins, analyzed big data & presented findings in Germany.

EDUCATION

Savonia University of Applied Science

B.E. , Internet of Things (IoT)
Sept. 2022- 2025 | Kuopio, Finland

Faridpur Polytechnic Institute

Vocational Deg. , Civil Technology
Dec. 2015 - 2019 | Faridpur, Bangladesh
CGPA 3.19/4.00

HONORS & AWARDS

Scholarship | Savonia University of Applied Science | 50% off the tuition fees | 2023

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CERTIFICATIONS

Docker Essentials: A Developer Introduction | IBM

Big Data Foundations | IBM

MATLAB | MathWorks |

First Aid | Savonia UAS | Punainen Risti

Hygieniapassi | Ruokavirasto

COURSEWORK

Basics of Programming | C

User Interface Programming | C#

Browser Programming | HTML | CSS | Java

Circuit and Systems

Digital Electronics

Electronics Measurements

Sensor Basics

Data Structure and Algorithms | Java